Reynald Pain

List of Publications by Year
in descending order

32 papers	23,697 citations	279487 23 h-index	454577 30 g-index
32 all docs	32 docs citations	32 times ranked	9915 citing authors

#	Article	IF	Citations
1	The Twins Embedding of Type Ia Supernovae. II. Improving Cosmological Distance Estimates. Astrophysical Journal, 2021, 912, 71.	1.6	12
2	The Twins Embedding of Type Ia Supernovae. I. The Diversity of Spectra at Maximum Light. Astrophysical Journal, 2021, 912, 70.	1.6	11
3	SUGAR: An improved empirical model of Type Ia supernovae based on spectral features. Astronomy and Astrophysics, 2020, 636, A46.	2.1	26
4	Strong dependence of Type Ia supernova standardization on the local specific star formation rate. Astronomy and Astrophysics, 2020, 644, A176.	2.1	96
5	The SNEMO and SUGAR Companion Data Sets. Research Notes of the AAS, 2020, 4, 63.	0.3	5
6	SNEMO: Improved Empirical Models for Type Ia Supernovae. Astrophysical Journal, 2018, 869, 167.	1.6	37
7	Correcting for peculiar velocities of Type Ia supernovae in clusters of galaxies. Astronomy and Astrophysics, 2018, 615, A162.	2.1	8
8	Understanding type Ia supernovae through their U-band spectra. Astronomy and Astrophysics, 2018, 614, A71.	2.1	11
9	Evidence of environmental dependencies of Type Ia supernovae from the Nearby Supernova Factory indicated by local HÎ± (Corrigendum). Astronomy and Astrophysics, 2018, 612, C1.	2.1	3
10	The Extinction Properties of and Distance to the Highly Reddened Type IA Supernova 2012cu. Astrophysical Journal, 2017, 836, 157.	1.6	18
11	IMPROVING COSMOLOGICAL DISTANCE MEASUREMENTS USING TWIN TYPE IA SUPERNOVAE. Astrophysical Journal, 2015, 815, 58.	1.6	47
12	CONFIRMATION OF A STAR FORMATION BIAS IN TYPE Ia SUPERNOVA DISTANCES AND ITS EFFECT ON THE MEASUREMENT OF THE HUBBLE CONSTANT. Astrophysical Journal, 2015, 802, 20.	1.6	171
13	Type Ia supernova bolometric light curves and ejected mass estimates from the Nearby Supernova Factory. Monthly Notices of the Royal Astronomical Society, 2014, 440, 1498-1518.	1.6	105
14	Improved cosmological constraints from a joint analysis of the SDSS-II and SNLS supernova samples. Astronomy and Astrophysics, 2014, 568, A22.	2.1	1,422
15	Spectrophotometric time series of SN 2011fe from the Nearby Supernova Factory. Astronomy and Astrophysics, 2013, 554, A27.	2.1	178
16	HOST GALAXY PROPERTIES AND HUBBLE RESIDUALS OF TYPE Ia SUPERNOVAE FROM THE NEARBY SUPERNOVA FACTORY. Astrophysical Journal, 2013, 770, 108.	1.6	123
17	Evidence of environmental dependencies of Type Ia supernovae from the Nearby Supernova Factory indicated by local HÎ±. Astronomy and Astrophysics, 2013, 560, A66.	2.1	151
18	Atmospheric extinction properties above Mauna Kea from the Nearby SuperNova Factory spectro-photometric data set. Astronomy and Astrophysics, 2013, 549, A8.	2.1	85

#	Article	IF	Citations
19	The reddening law of type Ia supernovae: separating intrinsic variability from dust using equivalent widths. Astronomy and Astrophysics, 2011, 529, L4.	2.1	110
20	TYPE Ia SUPERNOVA CARBON FOOTPRINTS. Astrophysical Journal, 2011, 743, 27.	1.6	78
21	The Supernova Legacy Survey 3-year sample: Type Ia supernovae photometric distances and cosmological constraints. Astronomy and Astrophysics, 2010, 523, A7.	2.1	412
22	NEARBY SUPERNOVA FACTORY OBSERVATIONS OF SN 2007if: FIRST TOTAL MASS MEASUREMENT OF A SUPER-CHANDRASEKHAR-MASS PROGENITOR. Astrophysical Journal, 2010, 713, 1073-1094.	1.6	292
23	The dependence of Type Ia Supernovae luminosities on their host galaxies. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	1.6	229
24	Using spectral flux ratios to standardize SNÂIa luminosities. Astronomy and Astrophysics, 2009, 500, L17-L20.	2.1	85
25	Improved Cosmological Constraints from New, Old, and Combined Supernova Data Sets. Astrophysical Journal, 2008, 686, 749-778.	1.6	1,217
26	SALT2: using distant supernovae to improve the use of type Ia supernovae as distance indicators. Astronomy and Astrophysics, 2007, 466, 11-21.	2.1	648
27	Nearby Supernova Factory Observations of SN 2005gj: Another Type Ia Supernova in a Massive Circumstellar Envelope. Astrophysical Journal, 2006, 650, 510-527.	1.6	222
28	The Supernova Legacy Survey: measurement of $Omega_{mathsf{M}}$, $Omega_mathsf{Lambda}$ andwfrom the first year data set. Astronomy and Astrophysics, 2006, 447, 31-48.	2.1	2,091
29	SNIFS: a wideband integral field spectrograph with microlens arrays. , 2004, , .		129
30	New Constraints on Î©M, Î©Î›, andwfrom an Independent Set of 11 Highâ€Redshift Supernovae Observed with theHubble Space Telescope. Astrophysical Journal, 2003, 598, 102-137.	1.6	1,406
31	Overview of the Nearby Supernova Factory. , 2002, , .		203
32	Measurements of Î© and Î› from 42 Highâ€Redshift Supernovae. Astrophysical Journal, 1999, 517, 565-586.	1.6	14,066